

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

Declaration Submitted With Initial Filing OR Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

| | |
|------------------------|----------------------|
| Attorney Docket Number | ISHI 21.053 |
| First Named Inventor | SEITZ, Eric, et. al. |
| COMPLETE IF KNOWN | |
| Application Number | |
| Filing Date | |
| Art Unit | |
| Examiner Name | |

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

WEARLESS VALVE FOR CRYOREFRIGERATOR

(Title of the Invention)

the specification of which

is attached hereto

OR

was filed on (MM/DD/YYYY) **March 8, 2005** as United States Application Number or PCT International Application Serial Number **11/034,320**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed | Certified Copy Attached? |
|-------------------------------------|---------|----------------------------------|--|--|
| | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| | | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

[Page 1 of 2]
This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

Direct all correspondence to:

The address associated with Customer Number:

026304

OR

Correspondence address below

Name

Address

City

State

ZIP

Country

Telephone

Email

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR:

A petition has been filed for this unsigned inventor

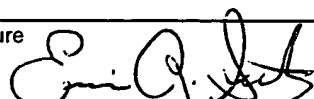
Given Name (first and middle [if any])

Eric

Family Name or Surname

SEITZ

Inventor's Signature



Date

6/2/06

Residence: City

Macungie

State

Pennsylvania

Country

United States of America

Citizenship

United States of America

Mailing Address

5787 Fresh Meadow Drive

City

Macungie

State

Pennsylvania

Zip

18062

Country

United States of America

Additional inventors or a legal representative are being named on the

supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | |
|--------------------|--|---|
| DECLARATION | | ADDITIONAL INVENTOR(S) Supplemental Sheet |
| | | Page <u>3</u> of <u>3</u> |

| | | | |
|--|---|-------------------------------------|---|
| Name of Additional Joint Inventor, if any: | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | |
| Given Name (first and middle (if any)) | | Family Name or Surname | |
| Jin Lin | GAO | | |
| Inventor's Signature | Date | | |
| Residence: City | State | United States of America Country | United States of America Citizenship |

c/o SHI-APD CRYOGENICS, INC., 1833 Vultee Street

| | | | |
|---|--------------------|---|---|
| Mailing Address | | | |
| City Allentown | State Pennsylvania | Zip 18103-4783 | Country United States of America |
| Name of Additional Joint Inventor, if any: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | |
| Given Name (first and middle (if any)) | | Family Name or Surname | |
| Ralph C. | LONGSWORTH | | |
| Inventor's Signature <i>Ralph C Longsworth</i> | | | Date <u>2 June '06</u> |
| Residence: City Allentown | State Pennsylvania | United States of America Country | United States of America Citizenship |

1833 Vultee Street

| | | | |
|--|--------------------|---|----------------------------------|
| Mailing Address | | | |
| City Allentown | State Pennsylvania | Zip 18103-4783 | Country United States of America |
| Name of Additional Joint Inventor, if any: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | |
| Given Name (first and middle (if any)) | | Family Name or Surname | |
| Mingyao | XU | | |
| Inventor's Signature <i>Mingyao</i> | | | Date <u>6/02/06</u> |
| Residence: City Emmaus | State Pennsylvania | United States of America Country | Citizenship China |

130 Cold Stream Court

| | | | |
|-----------------|--------------------|-----------|----------------------------------|
| Mailing Address | | | |
| City Emmaus | State Pennsylvania | Zip 18049 | Country United States of America |

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

Declaration Submitted With Initial Filing OR Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e))

| | |
|---------------------------|----------------------|
| Attorney Docket Number | ISHI 21.053 |
| First Named Inventor | SEITZ, Eric, et. al. |
| <i>COMPLETE IF KNOWN</i> | |
| Application Number | |
| Filing Date | |
| Art Unit | |
| Examiner Name | |

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

WEARLESS VALVE FOR CRYOREFRIGERATOR

(Title of the Invention)

the specification of which

 is attached hereto

OR

was filed on (MM/DD/YYYY) **March 8, 2005** as United States Application Number or PCT International Application Serial Number.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed | Certified Copy Attached? YES | Certified Copy Attached? NO |
|-------------------------------------|---------|----------------------------------|--|--|--|
| | | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

Direct all correspondence to: The address associated with Customer Number:

026304

OR

Correspondence address below

Name

Address

City

State

ZIP

Country

Telephone

Email

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR:

 A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])

Eric

Family Name or Surname

SEITZ

Inventor's Signature

Date

Residence: City

Macungie

State

Pennsylvania

Country

United States of America

Citizenship

United States of America

Mailing Address

5787 Fresh Meadow Drive

City

Macungie

State

Pennsylvania

Zip

18062

Country

United States of America



Additional inventors or a legal representative are being named on the

supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.

2009 JUL 20 OTRIT34 b:asR0S9A:

PTO/SB/02A (09-04)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION

**ADDITIONAL INVENTOR(S)
Supplemental Sheet**

Page 3 of 3

| | | | |
|---|---|---|---|
| Name of Additional Joint Inventor, if any: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | |
| Given Name (first and middle (if any)) | | Family Name or Surname | |
| Jin Lin | | GAO | |
| Inventor's Signature |  | | |
| Residence: City | State | United States of America Country | United States of America Citizenship |

c/o SHI-APD CRYOGENICS, INC., 1833 Vultee Street

Mailing Address

| | | | |
|----------------|--------------------|----------------|----------------------------------|
| City Allentown | State Pennsylvania | Zip 18103-4783 | Country United States of America |
|----------------|--------------------|----------------|----------------------------------|

Name of Additional Joint Inventor, if any: A petition has been filed for this unsigned inventor

Given Name (first and middle (if any)) Family Name or Surname

Ralph C. LONGSWORTH

Inventor's Signature Date

| | | | |
|---------------------------|--------------------|-------------------------------------|---|
| Residence: City Allentown | State Pennsylvania | United States of America Country | United States of America Citizenship |
|---------------------------|--------------------|-------------------------------------|---|

1833 Vultee Street
Mailing Address

| | | | |
|----------------|--------------------|----------------|----------------------------------|
| City Allentown | State Pennsylvania | Zip 18103-4783 | Country United States of America |
|----------------|--------------------|----------------|----------------------------------|

Name of Additional Joint Inventor, if any: A petition has been filed for this unsigned inventor

Given Name (first and middle (if any)) Family Name or Surname

Mingyao XU

Inventor's Signature Date

| | | | |
|------------------------|--------------------|-------------------------------------|-------------------|
| Residence: City Emmaus | State Pennsylvania | United States of America Country | Citizenship China |
|------------------------|--------------------|-------------------------------------|-------------------|

130 Cold Stream Court
Mailing Address

| | | | |
|-------------|--------------------|-----------|----------------------------------|
| City Emmaus | State Pennsylvania | Zip 18049 | Country United States of America |
|-------------|--------------------|-----------|----------------------------------|

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.